



Section 3: Course Sequences

Section 3 spells out approved course sequences that complete a concentration or specialization.

Definitions applicable to sequences include the following:

A *concentration* is a coherent sequence of courses completed by a student in a specific career area as identified in this planning guide.

A *specialization* is a choice by a student to specialize in an occupational field by taking additional courses in a specific career area as identified in this planning guide.

A career and technical education *completer* is a student who has met the requirements for a career and technical concentration or specialization and all requirements for high school graduation or an approved alternative education program..

Again, you will find course titles listed in alphabetical order. Almost all courses are presented as part of a concentration sequence, and some are listed as part of a specialization sequence. (In most cases, a concentration is equivalent in credit to two 36-week courses, and a specialization is equivalent to three 36-week courses.)

If you are interested in an advanced course, you will see a reference to the beginning course in the sequence. For example, beside Advanced Accounting is the note, "See Accounting BUS6320," and beside Forestry, Wildlife, and Soil Management ANR8042 is the note, "See Introduction to Natural Resources ANR8040."

Section 3: Course Sequences

Course/Course Code	Concentration Sequences	Specialization Sequences
Accounting BUS6320 Prerequisite: Keyboarding* is recommended. *Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills	Accounting BUS6320 and a combination of one or more of the following 18-week or 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Advanced Accounting BUS6321 • Business Law BUS6131/BUS6132* • Business Management BUS6135/BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Finance BUS6120/BUS6121* • Desktop/Multimedia Presentations BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires Desktop Multimedia Presentations prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Keyboarding Applications BUS6152/6153* • Keyboarding BUS6151* • Medical Systems Administration BUS6730/BUS6731* • Legal Systems Administration BUS6735/BUS6736* • Notetaking BUS6241/BUS6242* (may complement sequence but must be offered with two or more other courses) • Office Administration BUS6621/BUS6622* • Principles of Business and Marketing BUS6115/BUS6116* • Word Processing BUS6625/BUS6626* <i>*18-week course</i>	Accounting BUS6320 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses
Advanced Accounting BUS6321	See Accounting BUS6320	
Advanced Agricultural Mechanization ANR8020	See Agricultural Power and Equipment ANR8016	
Advanced Computer Information Systems BUS6613/BUS6615	See Computer Information Systems BUS6612/BUS6614	
Advanced Computer Network Software Operations BUS6651	See Computer Network Software Operations BUS6650	
Advanced Database Design and Management (Oracle) BUS6661	See Database Design and Management (Oracle) BUS6660	
Advanced Desktop/Multimedia Presentations BUS6631/BUS6633	See Desktop/Multimedia Presentations BUS6630/BUS6632	

Course/Course Code	Concentration Sequences	Specialization Sequences
Advanced Engineering DTE8491	See Introduction to Engineering DTE8490	
Advanced Fashion Marketing MKT8145/ MKT8146	See Fashion Marketing MKT8140/MKT8141	
Advanced Hotel/Motel Marketing MKT8162/MKT8163	See Hotel/Motel Marketing MKT8160/MKT8161	
Advanced International Marketing MKT8136	See International Marketing MKT8135	
Advanced Manufacturing Systems DTE8427	See Manufacturing Systems DTE8426	
Advanced Marketing MKT8130/MKT8131	See Marketing MKT8120/MKT8121	
Advanced Programming BUS6641	See Programming BUS6640	
Advanced Sports, Entertainment, and Recreation Marketing MKT8177/MKT8178	See Sports, Entertainment, and Recreation Marketing MKT8175/8176	
Advanced Travel and Tourism Marketing MKT8167/MKT8168	See Travel and Tourism Marketing MKT8165/MKT8166	
Advanced Turf Grass Applications ANR8054	See Turf Establishment and Maintenance ANR8051	
Advertising Design TDI8570/8571/8572	All T&I courses available for the 3-year scheduling option are listed as specializations.	Advertising Design I TDI8570 and Advertising Design II TDI8571 and Advertising Design III TDI8572 or ICT TDI8904 if needed for local scheduling option
Agricultural Business Fundamentals ANR8022	Agricultural Mechanics and Basic Plant Science ANR8006 or Agricultural Mechanics and Basic Animal Science ANR8008 and one of the following: <ul style="list-style-type: none"> • Agricultural Business Fundamentals ANR8022 • Agricultural Business Operations ANR8024 • Agricultural Business Management ANR8026 	Agricultural Mechanics and Basic Plant Science ANR8006 or Agricultural Mechanics and Basic Animal Science ANR8008 and two of the courses listed for concentration
Agricultural Business Management ANR8026	See Agricultural Business Fundamentals ANR8022	
Agricultural Business Operations ANR8024	See Agricultural Business Fundamentals ANR8022	
Agricultural Education for the Disabled ANR8050 Agricultural Education for the Disadvantaged ANR8053	Further information on these courses can be obtained from the Agricultural Education Program Specialist, Virginia Department of Education.	

Course/Course Code	Concentration Sequences	Specialization Sequences
Agricultural Mechanics and Basic Animal Science ANR8008	Agricultural Mechanics and Basic Animal Science ANR8008 and one of the following courses: <ul style="list-style-type: none"> • Agricultural Production Technology ANR8010 • Agricultural Production Management ANR8012 • Operating the Farm Business ANR8014 • Agricultural Power and Equipment ANR8016 • Agricultural Mechanization Sales and Service ANR8018 • Advanced Agricultural Mechanization ANR8020 • Agricultural Business Fundamentals ANR8022 • Agricultural Business Operations ANR8024 • Agricultural Business Management ANR8026 • Introduction to Natural Resources ANR8040 • Forestry, Wildlife, and Soil Management ANR8042 • Natural Resources Business Management ANR8044 • Equine Management ANR8080 • Small Animal Care I ANR8083 • Small Animal Care II ANR8084 	Agricultural Mechanics and Basic Animal Science ANR8008 and two or more of the courses listed for concentration
Agricultural Mechanics and Basic Plant Science ANR8006	Agricultural Mechanics and Basic Plant Science ANR8006 and one or more of the following courses: <ul style="list-style-type: none"> • Agricultural Production Technology ANR8010 • Agricultural Production Management ANR8012 • Operating the Farm Business ANR8014 • Agricultural Power and Equipment ANR8016 • Agricultural Mechanization Sales and Service ANR8018 • Advanced Agricultural Mechanization ANR8020 • Agricultural Business Fundamentals ANR8022 • Agricultural Business Operations ANR8024 • Agricultural Business Management ANR8026 • Ecology/Environmental Management ANR8046 • Horticulture Sciences ANR8034 • Floral Design I ANR8055 • Floral Design II ANR8056 • Floriculture ANR8038 • Greenhouse Plant Production and Management ANR8035 • Landscaping ANR8036 • Specialty Horticultural Arts ANR8037 • Introduction to Natural Resources ANR8040 • Forestry, Wildlife, and Soil Management ANR8042 • Natural Resources Business Management ANR8044 • Turf Establishment and Maintenance ANR8051 • Advanced Turf Grass Applications ANR8054 	Agricultural Mechanics and Basic Plant Science ANR8006 and two or more of the courses listed for concentration

Course/Course Code	Concentration Sequences	Specialization Sequences
Agricultural Mechanization Sales and Service ANR8018	See Agricultural Power and Equipment ANR8016	
Agricultural Power and Equipment ANR8016	<p>Agricultural Mechanics and Basic Plant Science ANR006 or Agricultural Mechanics and Basic Animal Science ANR8008 and one of the following:</p> <ul style="list-style-type: none"> • Agricultural Power and Equipment ANR8016 • Agricultural Mechanization Sales and Service ANR8018 • Advanced Agricultural Mechanization ANR8020 	<p>Agricultural Mechanics and Basic Plant Science ANR8006 or Agricultural Mechanics and Basic Animal Science ANR8008 and two or more courses listed for concentration</p> <p>Additional choices for specialization:</p> <ul style="list-style-type: none"> • Technology Foundations DTE8403 • Technology Transfer DTE8405
Agricultural Production Management ANR8012	See Agricultural Production Technology ANR8010	
Agricultural Production Technology ANR8010	<p>Agricultural Mechanics and Basic Animal Science ANR8008 or Agricultural Mechanics and Basic Plant Science ANR8006 and one of the following:</p> <ul style="list-style-type: none"> • Agricultural Production Technology ANR8010 • Agricultural Production Management ANR8012 • Operating the Farm Business ANR8014 	<p>Agricultural Mechanics and Basic Animal Science ANR8008 or Agricultural Mechanics and Basic Plant Science ANR8006 and two or more of the courses listed for concentration</p> <p>Additional courses available for specialization:</p> <ul style="list-style-type: none"> • Equine Management ANR8080 • Small Animal Care I ANR8083 • Horticulture Sciences ANR8034 • Greenhouse Plant Production and Management ANR8035 • Landscaping ANR8036 • Floriculture ANR8038 • Turf Establishment and Maintenance ANR8051 • Advanced Turf Grass Applications ANR8054
Aircraft Pilot Training TDI8731/TDI8732	Aircraft Pilot Training I TDI8731 and Aircraft Pilot Training II TDI8732	
Applied Agricultural Concepts ANR8072/ANR8073	Further information on this course can be obtained from the Agricultural Education Program Specialist, Virginia Department of Education.	
Architectural Drawing/Design DTE8437/DTE8492	Technical Drawing/Design DTE8435 and Architectural Drawing/Design DTE8437	Technical Drawing/Design DTE8435 and Engineering Drawing/Design DTE8436 and Architectural Drawing/Design DTE8437
Automotive Body Repair TDI8679/TDI8680/TDI8681—Noncertified	Further information on these courses can be obtained from the Trade and Industrial Education Program Specialist, Virginia Department of Education.	
Automotive Body Technology TDI8676/TDI8677/TDI8678—Certified	All T&I courses available for the 3-year scheduling option are listed as specializations.	Automotive Body Technology I—Certified TDI8676 and Automotive Body Technology II—Certified TDI8677 and Automotive Body Technology III—Certified TDI8678 or ICT TDI8904 if needed for local scheduling option

Course/Course Code	Concentration Sequences	Specialization Sequences
Automotive Maintenance TDI8709—one-year course	Automotive Maintenance TDI8709 and one of the following: <ul style="list-style-type: none"> Principles of Technology I DTE9811 Power and Transportation DTE8445 Energy and Power DTE8448 	Automotive Maintenance TDI8709 and Principles of Technology I DTE9811 or Power and Transportation DTE8445 or Energy and Power DTE8448 and one of the following: <ul style="list-style-type: none"> Entrepreneurship Education CCN9094 Industrial Cooperative Training TDI8904
Automotive Service Technology TDI8506/TDI8507/TDI8508—Certified	All T&I courses available for the 3-year scheduling option are listed as specializations.	Automotive Service Technology I—Certified TDI8506 and Automotive Service Technology II—Certified TDI8507 and Automotive Service Technology III—Certified TDI8508 or ICT TDI8904 if needed for local scheduling option
Automotive Servicing TDI8710/TDI8711/TDI8712—Noncertified	Further information on these courses can be obtained from the Trade and Industrial Education Program Specialist, Virginia Department of Education.	
Aviation Maintenance Technology TDI8728/TDI8729	Aviation Maintenance Technology I TDI8728 and Aviation Maintenance Technology II TDI8729	
Basic Automotive Body Repair TDI8675—one-year course	Basic Automotive Body Repair TDI8675 and one of the following: <ul style="list-style-type: none"> Materials and Processes DTE8433 Principles of Technology I DTE9811 	Basic Automotive Body Repair TDI8675 and Materials and Processes DTE8433 or Principles of Technology I DTE9811 and one of the following: <ul style="list-style-type: none"> Entrepreneurship Education CCN9094 Industrial Cooperative Training TDI8904
Basic Carpentry TDI8600—one-year course	Basic Carpentry TDI8600 and one of the following: <ul style="list-style-type: none"> Technical Drawing/Design DTE8435 Construction Technology DTE8431 Materials and Processes DTE8433 	Basic Carpentry TDI8600 and Technical Drawing/Design DTE8435 or Construction Technology DTE8431 or Materials and Processes DTE8433 and one of the following: <ul style="list-style-type: none"> Entrepreneurship Education CCN9094 Industrial Cooperative Training TDI8904
Basic Photography TDI8610—one-year course	Basic Photography TDI8610 and Communications Systems DTE8415 or Graphic Communications Systems DTE8458	Basic Photography TDI8610 and Communications Systems DTE8415 or Graphic Communications Systems DTE8458 and one of the following: <ul style="list-style-type: none"> Entrepreneurship Education CCN9094 Industrial Cooperative Training TDI8904
Basic Small Engine Repair TDI8724—one-year course	Basic Small Engine Repair TDI8724 and one of the following: <ul style="list-style-type: none"> Agricultural Power and Equipment ANR8016 Small Engine Repair ANR8082 	Basic Small Engine Repair TDI8724 and Agricultural Power and Equipment ANR8016 or Small Engine Repair ANR8082 and one of the following: <ul style="list-style-type: none"> Entrepreneurship Education CCN9094 Industrial Cooperative Training TDI8904
Bioengineering DTE8467	Biotechnology Foundations DTE9820 and Bioengineering DTE8467	Biotechnology Foundations DTE9820 and Bioengineering DTE8467 and Electronics Systems DTE8416

Course/Course Code	Concentration Sequences	Specialization Sequences
Biological Applications in Agriculture ANR8086	Further information on these courses can be obtained from the Agricultural Education Program Specialist, Virginia Department of Education.	
Biotechnology Applications in Agriculture ANR8087	Biotechnology Foundations DTE9820 and Biotechnology Applications in Agriculture ANR8087	Biotechnology Foundations DTE9820 and Biotechnology Applications in Agriculture ANR8087 and one additional course that addresses plant or animal science
Biotechnology Foundations DTE9820	Biotechnology Foundations DTE9820 and one of the following: <ul style="list-style-type: none"> • Bioengineering DTE8467 • Biomedical Technology HMS8347 • Biotechnology Applications in Agriculture ANR8087 	Biotechnology Foundations DTE9820 and Bioengineering DTE8467 and one of the following: <ul style="list-style-type: none"> • Biomedical Technology HMS8347 • Biotechnology Applications in Agriculture ANR8087 • Electronics Systems DTE8416
Bricklayer TDI8511—one-year course	Bricklayer TDI8511 and one of the following: <ul style="list-style-type: none"> • Technical Drawing/Design DTE8435 • Materials and Processes DTE8433 • Construction Technology DTE8431 	Bricklayer TDI8511 and Technical Drawing/Design DTE8435 or Materials and Processes DTE8433 or Construction Technology DTE8431 and one of the following: <ul style="list-style-type: none"> • Entrepreneurship Education CCN9094 • Industrial Cooperative Training TDI8904
Building Trades TDI8515/TDI8516/TDI8517	All T&I courses available for the 3-year scheduling option are listed as specializations.	Building Trades I TDI8515 and Building Trades II TDI8516 and Building Trades III TDI8517 or ICT TDI8904 if needed for local scheduling option
Business and Information Technology Dual Enrollment BUS6810	Further information on dual enrollment can be obtained from the Business and Information Technology Program Specialist, Virginia Department of Education.	

Course/Course Code	Concentration Sequences	Specialization Sequences
Business Law BUS6131/BUS6132 Prerequisite: None	Business Law BUS6131, BUS6132* and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Accounting BUS6320 • Advanced Accounting BUS6321 (requires Accounting prerequisite) • Business Management BUS6135/BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Desktop/Multimedia Presentations BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires Desktop/Multimedia Presentations prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS6120/BUS6121* • Legal Systems Administration BUS6735/BUS6736* • Notetaking BUS6241, BUS6242* (may complement sequence but must be offered with two or more other courses) • Office Administration BUS6621/BUS6622* • Principles of Business and Marketing BUS6115/BUS6116* • Word Processing BUS6625/BUS6626* <i>*18-week course</i>	Business Law BUS6131/BUS6132* and a combination of one or more 18-week or 36-week courses listed for concentration, equivalent to a total of three 36-week courses <i>*18-week course</i>

Course/Course Code	Concentration Sequences	Specialization Sequences
Business Management BUS6135/BUS6136 Prerequisite: None	Business Management BUS6135/BUS6136* and a combination of one or more of the following 18-week or 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> Accounting BUS6320 Advanced Accounting BUS6321 (requires Accounting prerequisite) Business Law BUS6131, BUS6132* Computer Applications BUS6611/BUS6617* Computer Information Systems (CIS) BUS6612, BUS6614* Advanced Computer Information Systems BUS6613, BUS6615* (requires CIS prerequisite) Desktop/Multimedia Presentations BUS6630/BUS6632* Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) Digital Input Technologies BUS6160*/BUS6161 Finance BUS6120, BUS6121* Notetaking BUS6241, BUS6242* (may complement sequence but must be offered with two or more other courses) Office Administration BUS6621, BUS6622* Principles of Business and Marketing BUS6115/BUS6116* Word Processing BUS6625/BUS6626* <i>*18-week course</i> Also see International Baccalaureate Business Management IB6135.	Business Management BUS6135/BUS6136* and a combination of one or more 18-week or 36-week courses listed for concentration, equivalent to a total of three 36-week courses <i>*18-week course</i>
Cabinetmaking TDI8604/TDI8605/TDI8606	All T&I courses available for the 3-year scheduling option are listed as specializations.	Cabinetmaking I TDI8604 and Cabinetmaking II TDI8605 and Cabinetmaking III TDI8606 or ICT TDI8904 if needed for local scheduling option
Career Pathways CCN9070/CCN9071/CCN9072/CCN9073	Further information regarding this career exploration course is available from the Career Connections Service, Virginia Department of Education.	
Carpentry TDI8601/TDI8602/TDI8603	All T&I courses available for the 3-year scheduling option are listed as specializations.	Carpentry I TDI8601 and Carpentry II TDI8602 and Carpentry III TDI8603 or ICT TDI8904 if needed for local scheduling option
Commercial Photography TDI8607/TDI8606/TDI8609	All T&I courses available for the 3-year scheduling option are listed as specializations.	Commercial Photography I TDI8607 and Commercial Photography II TDI8608 and Commercial Photography III TDI8609 or ICT TDI8904 if needed for local scheduling option

Course/Course Code	Concentration Sequences	Specialization Sequences
Commercial Sewing TDI8524/TDI8525/ TDI8526	All T&I courses available for the 3-year scheduling option are listed as specializations.	Commercial Sewing I 8524 and Commercial Sewing II 8525 and Commercial Sewing III 8526 or ICT TDI8904 if needed for local scheduling option
Communication Systems DTE8415/DTE8418	Communication Systems DTE8415 and Graphic Communications Systems DTE8458	Communication Systems DTE8415 and Graphic Communications Systems DTE8458 and one of the following: <ul style="list-style-type: none"> • Technology Foundations DTE8403 • Computer Control and Automation DRE8421

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Computer Applications BUS6611/BUS617</p> <p>Prerequisite: Keyboarding* is recommended. *Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Computer Applications BUS6611/BUS6617* and a combination of one or more of the following 18-week or 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Accounting BUS6320 • Advanced Accounting BUS 6321 (requires Accounting prerequisite) • Business Law BUS6131/BUS6132* • Business Management BUS6135/BUS6136* • Computer Information Systems (CIS) BUS6612/6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Computer Network Software Operations (CNSO) BUS6650 • Advanced Computer Network Software Operations BUS6651 (requires CNSO prerequisite) • Database Design and Management (DDM) BUS6660 • Advanced Database Design and Management BUS6661 (requires DDM prerequisite) • Desktop/Multimedia Presentations (DTMM) BUS6631/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMM prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS6120/6121* • Information Technology Fundamentals BUS6670 • International Baccalaureate Information Technology in a Global Society IB6613 • Keyboarding BUS6151* • Keyboarding Applications BUS6152/BUS6153* • Legal Systems Administration BUS6735/BUS6736* • Medical Systems Administration BUS6730/BUS6731* • Office Administration BUS6621/BUS6622* • Office Specialist BUS6740/BUS6741/BUS6742 • Principles of Business and Marketing BUS6115/BUS6116* • Programming BUS6640 • Advanced Programming BUS6641 (requires Programming prerequisite) • Word Processing BUS6625/BUS6626 <p><i>*18-week course</i></p>	<p>Computer Applications BUS6611/*BUS6617 and a combination of one or more 18-week or 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p>
<p>Computer Control and Automation DTE8421/DTE8420</p>	<p>Computer Control and Automation DTE8421 and one of the following:</p> <ul style="list-style-type: none"> • Communication Systems DTE8415 • Graphic Communications Systems DTE8458 	<p>Computer Control and Automation DTE8421 and Communication Systems DTE8415 and one of the following:</p> <ul style="list-style-type: none"> • Graphic Communications Systems DTE8458 • Electronics Systems DTE8416

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Computer Information Systems BUS6612/BUS6614</p> <p>Prerequisite: Keyboarding* *Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Computer Information Systems BUS6612/BUS6614* and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses</p> <ul style="list-style-type: none"> • Advanced Computer Information Systems BUS6613/BUS6615* • Accounting BUS6320 • Advanced Accounting BUS6321 (requires Accounting prerequisite) • Business Law BUS6131/BUS6132* • Business Management BUS6135/BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Network Software Operations BUS6650 • Advanced Computer Network Software Operations BUS6651 • Database Design and Management (DDM) BUS6660 • Advanced Database Design and Management BUS6661 (requires DDM prerequisite) • Desktop/Multimedia Presentations (DTMP) BUS6630/BUS6632 • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS6120/BUS6121* • Information Technology Fundamentals BUS6670 • Keyboarding Applications BUS6152/BUS6153* • Keyboarding BUS6151* • Notetaking BUS6241, BUS6242* (may complement sequence but must be offered with two or more other courses) • Office Administration BUS6621/BUS6622* • Principles of Business and Marketing BUS6115/BUS6116* • Programming BUS6640 • Advanced Programming BUS6641 (requires Programming prerequisite) • Advanced Information Technology Certifications I (AITC) BUS6680 • Advanced Information Technology Certifications II BUS6681 (requires AITC I prerequisite) <p><i>*18-week course</i></p> <p>Also, see International Baccalaureate Information Technology in a Global Society IB6613</p>	<p>Computer Information Systems BUS6612/BUS6614* and a combination of one or more 18-week or 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p> <p><i>*18-week course</i></p>

Course/Course Code	Concentration Sequences	Specialization Sequences
Computer Maintenance TDI8621—one-year course	Computer Maintenance TDI8621 and one of the following: <ul style="list-style-type: none"> Electronics Systems I DTE8416 Computer Control and Automation DTE8421 	Computer Maintenance TDI8621 and Electronics Systems I DTE8416 or Computer Control and Automation DTE8421 and one of the following: <ul style="list-style-type: none"> Entrepreneurship Education CCN9094 Industrial Cooperative Training TDI8904
Computer Network Hardware Operations TDI8542/TDI8543/TDI8544/TDI8545 (18-week courses)	Information Technology Fundamentals BUS6670 may precede Computer Networking Hardware Operations I TDI8542. Computer Networking Hardware Operations I TDI8542 and Computer Networking Hardware Operations II TDI8543 and Computer Networking Hardware Operations III TDI8544 and Computer Networking Hardware Operations IV TDI8545	
Computer Network Software Operations BUS6650 Prerequisite: Keyboarding* and Information Technology Fundamentals are recommended. *Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills	Computer Network Software Operations BUS6650 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> Advanced Computer Network Software Operations BUS6651 Computer Applications BUS6611/BUS6617* Computer Information Systems (CIS) BUS6612/BUS6614* Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) Database Design and Management (DDM) (Oracle) BUS6660 Advanced Database Design and Management (Oracle) BUS 6661 (requires DDM prerequisite) Desktop/Multimedia Presentations BUS6630/BUS6632 Information Technology Fundamentals BUS6670 Programming BUS6640 Advanced Programming BUS6641 (requires Programming prerequisite) Advanced Information Technology Certifications I (AITC) BUS6680 Advanced Information Technology Certifications II BUS6681 (requires AITC I prerequisite) <i>*18-week course</i> Also, see International Baccalaureate Information Technology in a Global Society IB6613.	Computer Network Software Operations BUS6650 and a combination of one or more 18-week or 36-week courses listed for concentration, equivalent to a total of three 36-week courses

Course/Course Code	Concentration Sequences	Specialization Sequences
Computer Solutions BUS6610/6609	This middle school course is a foundation course. It may be sequenced with many other business courses but does not count toward a concentration sequence.	
Computer Systems Technology TDI8622/TDI8623/TDI8624	All T&I courses available for the 3-year scheduling option are listed as specializations.	Information Technology Fundamentals BUS6670 may precede Computer Systems Technology I TDI8622
		Computer Systems Technology I TDI8622 and Computer Systems Technology II TDI8623 and Computer Systems Technology III TDI8624 or ICT TDI8904 if needed for local scheduling option
Construction Technology DTE8431	Construction Technology DTE8431 and one of the following: <ul style="list-style-type: none"> • Production Systems DTE8447 • Materials and Processes Technology DTE8433 • Manufacturing Systems DTE8425 	Construction Technology DTE8431 and Materials and Processes Technology DTE8433 and one of the following: <ul style="list-style-type: none"> • Production Systems DTE8447 • Manufacturing Systems DTE8425
Cosmetology TDI8527/TDI8528/TDI8529	All T&I courses available for the 3-year scheduling option are listed as specializations.	Cosmetology I TDI8527 and Cosmetology II TDI8528 and Cosmetology III TDI8529 or ICT TDI8904 if needed for local scheduling option
Criminal Justice TDI8702/TDI8703/TDI8704	All T&I courses available for the 3-year scheduling option are listed as specializations.	Criminal Justice I TDI8702 and Criminal Justice II TDI8703 and Criminal Justice III TDI8704 or ICT TDI8904 if needed for local scheduling option
Culinary Arts TDI8521/TDI8522/8523	All T&I courses available for the 3-year scheduling option are listed as specializations.	Culinary Arts I TDI8521 and Culinary Arts II TDI8522 and Culinary Arts III TDI8523 or ICT TDI8904 if needed for local scheduling option
Culinary Arts FCS8275/FCS8275	Culinary Arts I FCS8275 and a combination of courses equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Culinary Arts II FCS8276 • Introduction to Culinary Arts FCS8250 • Individual Development FCS8209*/FCS8210 • Nutrition and Wellness FCS8228*/FCS8229 • Resource Management FCS8214*/FCS8219 • Work and Family Management FCS8205*/FCS8282 • GRADS FCS8213 	Culinary Arts I FCS8275 and a combination of courses listed for concentration, equivalent to a total of three 36-week courses
Custodial Services TDI8590/TDI8591/TDI8592	All T&I courses available for the 3-year scheduling option are listed as specializations.	Custodial Services I TDI8590 and Custodial Services II TDI8591 and Custodial Services III TDI8592 or ICT8904 if needed for local scheduling option

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Database Design and Management (Oracle) BUS6660</p> <p>Prerequisite: Information Technology Fundamentals is recommended.</p>	<p>Database Design and Management (Oracle) BUS6660 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Advanced Database Design and Management (Oracle) BUS6661 (requires DDM prerequisite) • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Computer Network Software Operations (CNSO) BUS6650 • Advanced Computer Network Software Operations BUS6651 (requires CNSO prerequisite) • Advanced Information Technology Certifications I (AITC) BUS6680 • Advanced Information Technology Certifications II BUS6681 (requires AITC I prerequisite) • Information Technology Fundamentals BUS6670 • Programming BUS6640 • Advanced Programming BUS6641 (requires Programming prerequisite) <p><i>*18-week course</i></p> <p>Also, see International Baccalaureate Information Technology in a Global Society IB6613</p>	<p>Database Design and Management (DDM) (Oracle) BUS6660 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p>
<p>Dental Assistant HMS8328/HMS8329</p>	<p>Dental Assistant I HMS8328 Dental Assistant II HMS8329</p>	

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Desktop/Multimedia Presentations BUS6630/BUS6632</p> <p>Prerequisite: Keyboarding* *Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Desktop/Multimedia Presentations BUS6630/BUS6632* and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Information Technology Fundamentals BUS6670 • Keyboarding Applications BUS6152, BUS6153* • Keyboarding BUS6151* • Principles of Business and Marketing BUS6115/BUS6116* • Programming BUS6640 • Advanced Programming BUS6641 (requires Programming prerequisite) • Advanced Information Technology Certifications I (AITC) BUS6680 • Advanced Information Technology Certifications II BUS6681 (requires AITC I prerequisite) <p><i>*18-week course</i></p> <p>Also, see International Baccalaureate Information Technology in a Global Society IB6613</p>	<p>Desktop/Multimedia Presentations BUS6630/BUS6632* and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses <i>18-week course</i></p>
<p>Diesel Equipment Technology TDI8615/TDI8616/TDI8617</p>	<p>All T&I courses available for the 3-year scheduling option are listed as specializations.</p>	<p>Diesel Equipment Technology I TDI8615 and Diesel Equipment Technology II TDI8616 and Diesel Equipment Technology III TDI8617 or ICT TDI8904 if needed for local scheduling option</p>

Course/Course Code	Concentration Sequences	Specialization Sequences
Digital Input Technologies BUS6160/ BUS6161 Prerequisite: BUS6160: Keyboarding* is recommended. BUS6161: None * Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills	Digital Input Technologies BUS6160*/BUS6161 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> Accounting BUS6320 Business Law BUS6131/BUS6132* Business Management BUS6135/BUS6136* Computer Applications BUS6611/BUS6617* Computer Information Systems BUS6612/BUS6614* Information Technology Fundamentals BUS6670 Keyboarding** BUS6151* or Keyboarding Applications** BUS6152/BUS6153* Legal Systems Administration BUS6735 Medical Systems Administration Office Administration BUS6621/BUS6622* Office Specialist BUS6740/BUS6741/BUS6742 Principles of Business and Marketing BUS6115/ BUS6116* Word Processing BUS6625/BUS6626* <i>*18 week course</i> ** Only counted as sequential offering with BUS6160. The 36-week DIT course BUS6161 contains keyboarding.	Digital Input Technologies BUS6160*/BUS6161 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses: <i>*18 week course</i>
Drafting TDI8530/TDI8531/TDI8532	All T&I courses available for the 3-year scheduling option are listed as specializations.	Drafting I TDI8530 and Drafting II TDI8531 and Drafting III TDI8532 or ICT TDI8904 if needed for local scheduling option
Early Childhood Education FCS8285/	Early Childhood Education I FCS8285 and a combination of one or more of the following courses equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> Early Childhood Education II FCS8286 Family Relations FCS8223*/FCS8225 Individual Development FCS8209*/FCS8210 Parenting FCS8231 Introduction to Early Childhood Education FCS8234 GRADS FCS8213 (with cooperative education) <i>*18-week course</i>	Early Childhood Education I FCS8285 and Early Childhood Education II FCS8286 and a combination of courses listed for concentration, equivalent to a total of three 36-week courses
Ecology/Environmental Management ANR8045/ANR8046		Agricultural Mechanics and Basic Plant Science ANR8006 and Introduction to Natural Resources ANR8040 and Ecology/Environmental Management ANR8045*/ANR8046 <i>*18-week course</i>

Course/Course Code	Concentration Sequences	Specialization Sequences
Education for Employment: Introduction CCN9075/CCN9076/CCN9082/ CCN9083 Level I CCN9077/CCN9078/CCN9084/ CCN9085 Level II CCN9079/CCN9080/CCN9086/ CCN9087 EFE Cooperative Education I CCN9020/ CCN9030 EFE Cooperative Education II CCN9021/ CCN9031	Information about these courses for at-risk learners is available from the Career Connections Service, Virginia Department of Education.	
Electricity and Cabling TDI8533/TDI8534/ TDI8535	All T&I courses available for the 3-year scheduling option are listed as specializations.	Electricity and Cabling I TDI8533 and Electricity and Cabling II TDI8534 and Electricity and Cabling III TDI8535 or ICT TDI8904 if needed for local scheduling option
Electronics Systems I DTE8416/DTE8417 Electronics Systems II DTE8412	Electronics Systems I DTE8416 Electronics Systems II DTE8412 Electronics Systems I DTE8416 and one of the following: Computer Maintenance TDI8621 Computer Control and Automation DTE8421	Technology Foundations DTE8413 or Technical Drawing/Design DTE8435 and Electronics Systems I DTE8416 and Electronics Systems II DTE8412 or Computer Maintenance TDI8621
Electronics Technology TDI8536/TDI8537/ TDI8538	All T&I courses available for the 3-year scheduling option are listed as specializations.	Electronics Technology I TDI8536 and Electronics Technology II TDI8537 and Electronics Technology III TDI8538 or ICT TDI8904 (if needed for local scheduling option)
Emergency Medical Technician-B HMS8333/ HMS8334/HMS8335	Emergency Medical Technician-B I HMS8333* and Emergency Medical Technician-B II HMS8334* and Emergency Medical Technician-B III HMS8335 <i>*18-week course</i>	
Energy and Power DTE8448/DTE8495	Power and Transportation DTE8445 and Energy and Power DTE8448 Heavy Duty Equipment Repair TDI8612 and one of the following: Power and Transportation DTE8445 Energy and Power DTE8448	Power and Transportation DTE8445 and Energy and Power DTE8448 and Electronics Systems I DTE8416
Engineering Drawing/Design DTE8436/ DTE8493	Technical Drawing/Design DTE8435 and Engineering Drawing/Design DTE8436	Technical Drawing/Design DTE8435 and Engineering Drawing/Design DTE8436 and Architectural Drawing/Design DTE8437

Course/Course Code	Concentration Sequences	Specialization Sequences
Equine Management and Production ANR8015/ANR8080	Agricultural Mechanics and Basic Animal Science ANR8008 and Equine Management ANR8080 (36 weeks)	Agricultural Mechanics and Basic Animal Science ANR8008 and Agricultural Production Technology ANR8010 and Equine Management ANR8080 (36 weeks)
Entrepreneurship Education CCN9094	See Exploring Entrepreneurship CCN9093	
Exploring Entrepreneurship CCN9093	Entrepreneurship courses may be included in many specializations to provide opportunities for students to investigate or prepare for business ownership. More information is available from the Career Connections Service, Virginia Department of Education.	Example: See Basic Carpentry
Family and Human Services FCS8264/FCS8265	Family and Human Services I FCS8264 and a combination of one or more of the following courses equivalent to a total of two 36-week courses <ul style="list-style-type: none"> Family and Human Services II FCS 8265 Introduction to Family and Human Services FCS8237*/FCS8238 Family Relations FCS8223 Parenting FCS8231 Resource Management FCS8214 Introduction to Early Childhood Education and Services FCS8233 Work and Family Management FCS8205 GRADS 8213 (with cooperative education) 	Family and Human Services I FCS8264 and Family and Human Services II FCS8265 and a combination of courses listed for concentration, equivalent to a total of three 36-week courses Also available for specialization: Any Family and Consumer Sciences sequence combined with Home Health Aide HMS8364
Family Relations FCS8223/FCS8225	Family Relations FCS8223* or Family Relations FCS8225 and a combination of the following courses equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> Individual Development FCS8209*/FCS8210 Life Planning FCS8226*/FCS8227 Nutrition and Wellness FCS8228*/FCS8229 Parenting FCS8231*/FCS8232 Resource Management FCS8214*/FCS8219 Introduction to Early Childhood Education and Services FCS8233*/FCS8234 Introduction to Family and Human Services FCS8237*/FCS82378 Leadership Development CCN9091 Work and Family Management FCS8205 GRADS FCS8277*/FCS8278 <i>*18-week course</i>	Family Relations FCS8223 or Family Relations FCS8225 and a combination of courses listed for concentration, equivalent to a total of three 36-week courses
Farm Equipment Operator ANR8052	This senior-intensified course stands alone; cooperative education is recommended as part of the course.	

Course/Course Code	Concentration Sequences	Specialization Sequences
Fashion Design FCS8280/FCS8281	Fashion Design I FCS8280 and a combination of the following courses, equivalent to a total of two 36-week courses <ul style="list-style-type: none"> • Fashion Design II FCS8281 • Introduction to Fashion Design and Marketing Occupations FCS8248 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Resource Management FCS8214*/FCS8219 *18-week course	Fashion Design I FCS8280 and Fashion Design II FCS828 and a combination of courses listed for concentration, equivalent to a total of three 36-week courses
Fashion Marketing MKT8140/MKT8141	Fashion Marketing MKT8140/8141 and Advanced Fashion Marketing MKT8145/8146 Introduction to Fashion Design and Marketing MKT8148/MKT8149 and Fashion Marketing MKT8140/8141 and Advanced Fashion Marketing MKT8145/8146 Make It Your Business MKT8109/MKT8112/MKT8113/MKT8114 and Fashion Marketing MKT8140/8141 and Advanced Fashion Marketing MKT8145/8146	
Finance BUS6120/BUS6121 Prerequisite: None	Finance BUS6120, BUS6121* and a combination one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Accounting BUS6320 • Advanced Accounting BUS6321 • Business Law BUS6131, BUS6132* • Business Management BUS6135, BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612, BUS6614* • Advanced Computer Information Systems BUS6613, BUS6615* (requires CIS prerequisite) • Principles of Business and Marketing BUS 6115/6116* *18-week course	Finance BUS6120, BUS6121* and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses
Financial Services Marketing MKT8180/MKT8181	Financial Services Marketing MKT8180/8181 and one of the following: <ul style="list-style-type: none"> • Advanced Marketing MKT8130/MKT8131 • Internet Marketing MKT8125 • Marketing Management MKT8132 • International Marketing MKT8135 	
Firefighting TDI8705/TDI8706/TDI8707	All T&I courses available for the 3-year scheduling option are listed as specializations.	Firefighting I TDI8705 and Firefighting II TDI8706 and Firefighting III TDI8707 or ICT TDI8904 if needed for local scheduling option
Floral Design I ANR8055	See Horticulture Sciences ANR8034	

Course/Course Code	Concentration Sequences	Specialization Sequences
Floral Design II ANR8056	See Horticulture Sciences ANR8034	
Floriculture ANR8038	See Horticulture Sciences ANR8034	
Forestry, Wildlife, and Soil Management ANR8042	See Introduction to Natural Resources ANR8040	
Fundamentals of Marketing MKT8110	Fundamentals of Marketing may be included in addition to any two 36-week course sequences for any of the following: <ul style="list-style-type: none"> • General Marketing • Executive Marketing • Apparel and Accessories Marketing • Hospitality, Tourism, and Recreation Marketing 	
General Mechanics for the Disadvantaged ANR8070	Further information about this course can be obtained from the Agricultural Education Program Specialist, Virginia Department of Education.	
GRADS Family Focus FCS8277/FCS8278 GRADS Work Focus FCS8213	<p>GRADS FCS8277*/FCS8278 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 <p><i>*18-week course</i></p> <p>GRADS FCS8278 or GRADS FCS8213 and one of the following 36-week transition focus courses:</p> <ul style="list-style-type: none"> • Introduction to Culinary Arts FCS8250 • Introduction to Early Childhood Education and Services FCS8234 • Introduction to Family and Human Services FCS8238 • Introduction to Fashion Design Occupations FCS8248 • Introduction to Hospitality, Recreation, and Tourism Occupations FCS8259 • Introduction to Housing, Home Furnishings, and Design Occupations FCS8255 • Work and Family Management FCS8282 <p>GRADS FCS8213 (with cooperative education component) and one 36-week work focus course:</p> <ul style="list-style-type: none"> • Culinary Arts I FCS8275 • Early Childhood Education and Services I FCS8285 • Family and Human Services I FCS8264 • Fashion Design Occupations I FCS8280 • Hospitality Services I FCS8202 • Interior Design Occupations I FCS8295 	<p>GRADS FCS8277* or GRADS FCS8278 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p> <p>GRADS FCS8213 and one of the following sequences:</p> <ul style="list-style-type: none"> • Culinary Arts I FCS8275 and Culinary Arts II FCS8276 • Early Childhood Education and Services I FCS8285 and Early Childhood Education and Services II FCS8286 • Family and Human Services I FCS8264 and Family and Human Services II FCS8265 • Fashion Design Occupations I FCS8280 and Fashion Design Occupations II FCS8281 • Hospitality Services I FCS8202 and Hospitality Services II FCS8203 • Interior Design Occupations I FCS8295 and Interior Design Occupations II FCS8296 <p><i>*18-week course</i></p> <p>GRADS FCS8213 and any combination of one or more 18- and 36-week courses, equivalent to a total of three 36-week courses</p>

Course/Course Code	Concentration Sequences	Specialization Sequences
Graphic Communication Systems DTE8458	Graphic Communications Systems DTE8458 and Communications Systems DTE8415	Graphic Communications Systems DTE8458 and Communications Systems DTE8415 and one of the following: <ul style="list-style-type: none"> • Computer Control and Automation DTE8421 • Technology Foundations 8403
Graphic Imaging Technology TDI8660/TDI8661/TDI8662	All T&I courses available for the 3-year scheduling option are listed as specializations.	Graphic Imaging Technology I TDI8660 and Graphic Imaging Technology II TDI8661 and Graphic Imaging Technology III TDI8662 or ICT TDI8904 if needed for local scheduling option
Greenhouse Plant Production and Management ANR8035	See Horticulture Sciences ANR8034	
Health Assistant HMS8331/HMS8332	Health Assistant I HMS8331 Health Assistant II HMS8332	
Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) TDI8503/TDI8504/TDI8505	All T&I courses available for the 3-year scheduling option are listed as specializations.	Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) I TDI8503 and HVACR II TDI8504 and HVACR III TDI8505 or ICT TDI8904 if needed for local scheduling option
Heavy Duty Equipment Repair TDI8612 (one-year course)	Heavy Duty Equipment Repair TDI8612 and one of the following: <ul style="list-style-type: none"> • Power and Transportation DTE8445 • Energy and Power DTE8448 	Heavy Duty Equipment Repair TDI8612 and Power and Transportation DTE8445 or Energy and Power DTE8448 and one of the following: <ul style="list-style-type: none"> • Entrepreneurship Education CCN9094 • Industrial Cooperative Training TDI8904
Home Health Aide HMS8364	Home Health Aide HMS8364 and Family and Human Services I FCS8264	Home Health Aide HMS8364 and Introduction to Family and Human Services FCS8237/8238 and Family and Human Services I FCS8264 or Home Health Aide HMS8364 and Family and Human Services I FCS8264 and Family and Human Services II FCS8265
Horticulture Sciences ANR8034	Agricultural Mechanics and Basic Plant Science ANR8006 and Horticulture Sciences ANR8034	Agricultural Mechanics and Basic Plant Science ANR8006 and Horticulture Sciences ANR8034 and two of the following: <ul style="list-style-type: none"> • Greenhouse Plant Production and Management ANR8035 • Landscaping ANR8036 • Floriculture ANR8036 • Floral Design I ANR8055 • Floral Design II ANR8056 • Specialty Horticulture Arts ANR8037
	Horticulture Sciences ANR8034 and one of the following: <ul style="list-style-type: none"> • Greenhouse Plant Production and Management ANR8035 • Landscaping ANR8036 • Floriculture ANR8036 • Floral Design I ANR8055 • Specialty Horticulture Arts ANR8037 	

Course/Course Code	Concentration Sequences	Specialization Sequences
Hospitality Services FCS8202/FCS8203	Hospitality Services I FCS8202 and a combination of one or more of the following 18- and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Hospitality Services II FCS8203 • Introduction to Hospitality, Tourism, and Recreation Occupations FCS8258*/FCS8259 • Resource Management FCS8219 • GRADS FCS8213 	Hospitality Services I FCS8202 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses
Hotel/Motel Marketing MKT8160/MKT8161	Hotel/Motel Marketing MKT8160/MKT8161 and one of the following: <ul style="list-style-type: none"> • Advanced Hotel/Motel Marketing MKT8162/ MKT8163 • Internet Marketing MKT8125 	Hotel/Motel Marketing MKT8160/MKT8161 and Advanced Hotel/Motel Marketing MKT8162/MKT8163 and Internet Marketing MKT8125
Individual Development FCS8209/FCS8210	Individual Development FCS8209*/FCS8210 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Introduction to Consumer Services FCS8235*/FCS8236 • Introduction to Early Childhood Education and Services FCS8233*/FCS8234 • Introduction to Family and Human Services FCS8237*/FCS8238 • Introduction to Fashion Design and Marketing Occupations FCS8247*/FCS8248 *18-week course	Individual Development FCS8209*/FCS8210 and any combination of courses listed for concentration, equivalent to a total of three 36-week courses *18-week course
Industrial Cooperative Training (ICT) TDI8901/TDI8902/TDI8903	ICT TDI8901 (non coop) and ICT TDI8902 (coop)	ICT TDI8901 (non coop) and ICT TDI8902 (coop) and ICT TDI8903 (coop)
Industrial Cooperative Training (ICT) TDI8904	ICT TDI8904 is a senior-intensified cooperative education course. Further information is available from the Trade and Industrial Education Program Specialist, Virginia Department of Education.	
Industrial Maintenance Technology TDI8575/TDI8576/TDI8577		Industrial Maintenance Technology I TDI8575 and Industrial Maintenance Technology II TDI8576 and Industrial Maintenance Technology III TDI8577 or ICT TDI8904 if needed for local scheduling option

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Information Technology Fundamentals BUS6670</p> <p>Prerequisite: Keyboarding* is recommended. * Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Information Technology Fundamentals BUS6670 and a combination of one or more of the following 18- and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Advanced Information Technology Certifications (AITC) I BUS6680 • Advanced Information Technology Certifications II BUS6681 (requires AITC I prerequisite) • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Computer Network Hardware Operations TDI8542/TDI8543/TDI8544/TDI8545 • Computer Network Software Operations (CSNO) BUS6650 • Advanced Computer Network Software Operations BUS6651 (requires CSNO prerequisite) • Computer Systems Technology TDI8622/TDI8623/TDI8624 • Database Design and Management (Oracle) (DDM) BUS6660 • Advanced Database Design and Management BUS6661 (requires DDM prerequisite) • Desktop /Multimedia Presentations (DTMP) BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Programming BUS6640 • Advanced Programming BUS6641 <p><i>*18-week course</i></p>	<p>Information Technology Fundamentals BUS6670 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p>
<p>Interior Design FCS8295/FCS8296</p>	<p>Interior Design I FCS8295 and a combination of one or more of the following 18- and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Interior Design II FCS8296 • Introduction to Housing, Home Furnishings, and Design Occupations FCS8255 • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • GRADS FCS8213 <p><i>*18-week course</i></p>	<p>Interior Design I FCS8295 and Interior Design II FCS8296 and a combination of courses listed for concentration, equivalent to a total of three 36-week courses</p>

Course/Course Code	Concentration Sequences	Specialization Sequences
International Baccalaureate Business Management IB6135	See sequences associated with Business Management BUS6135	
International Baccalaureate Information Technology in a Global Society IB6613	See sequences associated with the following: <ul style="list-style-type: none"> • Computer Application BUS6611/BUS6617 • Computer Information Systems BUS6612/BUS6614 • Computer Network Software Operations BUS6650 • Database Design and Management (Oracle) BUS6660 • Desktop/Multimedia Presentations BUS6630/BUS6632 • Programming BUS6640 	
International Marketing MKT8135	International Marketing MKT8135 and one of the following: <ul style="list-style-type: none"> • Advanced International Marketing MKT8136 • Internet Marketing MKT8125 	
Internet Marketing MKT8125	Internet Marketing MKT8125 and Advanced Marketing MKT8130/8131	Internet Marketing MKT8125 and Advanced Marketing MKT8130/8131 and Marketing Management MKT8132
Introduction to Culinary Arts FCS8249/FCS8250 (This is a transition focus course. It must be combined with family focus or work focus courses to make an approved concentration sequence)	Introduction to Culinary Arts FCS8249*/FCS8250 and a combination of one or more of the following 18-week and 36-week courses equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Culinary Arts I FCS8275 • Culinary Arts II FCS8276 <i>* 18-week course</i>	Introduction to Culinary Arts FCS8249*/FCS8250 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses
Introduction to Early Childhood Education FCS8233/FCS8234 (This is a transition focus course. It must be combined with family focus or work focus courses to make an approved concentration sequence)	Introduction to Early Childhood Education and Services FCS8233*/FCS8234 and a combination of one or more of the following 18-week and 36-week courses equivalent at least to two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Early Childhood Education and Services I FCS8285 • Early Childhood Education and Services I IFCS8286 <i>* 18-week course</i>	Introduction to Early Childhood Education and Services FCS8233*/FCS8234 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses
Introduction to Engineering DTE8490	Introduction to Engineering DTE8490 and Advanced Engineering DTE8491	Introduction to Engineering DTE8490 and Advanced Engineering DTE8491 and Technical Drawing/Design DTE8435

Course/Course Code	Concentration Sequences	Specialization Sequences
Introduction to Family and Human Services FCS8237/FCS8238 (This is a transition focus course. It must be combined with family focus or work focus courses to make an approved concentration sequence)	Introduction to Family and Human Services FCS8237*/FCS8238 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Family and Human Services I FCS8264 • Family and Human Services II FCS8265 <i>* 18-week course</i>	Introduction to Family and Human Services FCS8237*/FCS8238 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses
Introduction to Fashion Design and Marketing FCS8247/ FCS8248 (This is a transition focus course. It must be combined with family focus or work focus courses to make an approved concentration sequence)	Introduction to Fashion Design and Marketing FCS8247*/FCS8248 and a combination of one or more of the following 18-week and 36-week courses equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Resource Management FCS8214*/FCS8219 • Fashion Design I FCS8280 • Fashion Design II FCS8281 <i>* 18-week course</i>	Introduction to Fashion Design and Marketing FCS8247*/FCS8248 and a combination of one or more of the following 18-week and 36-week courses equivalent to a total of three 36-week courses
Introduction to Fashion Design and Marketing MKT8149	Introduction to Fashion Design and Marketing MKT8149 and Fashion Marketing MKT8140/MKT8141 and Advanced Fashion Marketing MKT8145/MKT8146	
Introduction to Health and Medical Sciences HMS8302	Introduction to Health and Medical Sciences HMS8302 is recommended as the first course for the following occupational offerings: <ul style="list-style-type: none"> • Practical Nursing I HMS8357* and Practical Nursing II HMS8358* • Nursing Assistant I HMS8360 • Medical Terminology HMS8383 <i>*18-week course</i>	

Course/Course Code	Concentration Sequences	Specialization Sequences
Introduction to Hospitality, Tourism, and Recreation FCS8258/FCS8259 (This is a transition-focus course. It must be combined with family focus or work focus courses to make an approved concentration sequence)	Introduction to Hospitality, Tourism, and Recreation Occupations FCS8258/FCS8259 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Hospitality Services I FCS8202 • Hospitality Services II FCS8203 <i>* 18-week course</i>	Introduction to Hospitality, Tourism, and Recreation Occupations FCS8258*/FCS8259 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses <i>* 18-week course</i>
Introduction to Housing, Home Furnishings, and Design FCS8254/ FCS8255 (This is a transition-focus course. It must be combined with family focus or work focus courses to make an approved concentration sequence)	Introduction to Housing, Home Furnishings, and Interior Design Occupations FCS8254*/FCS8255 and a combination of one or more of the following 18-week and 36-week courses equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Interior Design I FCS8295 • Interior Design II FCS8296 <i>* 18-week course</i>	Introduction to Housing, Home Furnishings, and Interior Design Occupations FCS8254*/FCS8255 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses <i>18-week course</i>
Introduction to Leadership CCN9091	Leadership courses may be included in many concentrations and specializations to help students prepare for and practice family, career, and community leadership roles. More information is available from the Career Connections Service, Virginia Department of Education.	
Introduction to Marketing MKT8111	Introduction to Marketing may be included in addition to any two 36-week course sequences for any of the following: <ul style="list-style-type: none"> • General Marketing • Executive Marketing • Apparel and Accessories Marketing • Hospitality, Tourism, and Recreation Marketing • Financial Services Marketing 	
Introduction to Natural Resources ANR8040	Agricultural Mechanics and Basic Animal Science ANR8008 or Agricultural Mechanics and Basic Plant Science ANR8006 and Introduction to Natural Resources ANR8040	Agricultural Mechanics and Basic Animal Science ANR8008 or Agricultural Mechanics and Basic Plant Science ANR8006 and Introduction to Natural Resources ANR8040 or one of the following: <ul style="list-style-type: none"> • Forestry, Wildlife, and Soil Management ANR8042 • Natural Resources Business Management ANR8044

Course/Course Code	Concentration Sequences	Specialization Sequences
Keyboarding BUS6150 (middle school)	Keyboarding BUS6150 is a foundation course. It may be sequenced with or be a prerequisite for many other business courses but does not count toward a concentration or specialization.	
Keyboarding BUS6151 Keyboarding Applications BUS6152/ BUS6153 Prerequisite: None	Keyboarding BUS6151* or Keyboarding Applications BUS6152/BUS6153* and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Accounting BUS6320 • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Desktop Multimedia Presentations (DTMP) BUS6630/BUS6632* • Advanced Desktop Multimedia Presentations BUS6631/BUS6633* • Digital Input Technologies BUS6160*/BUS6161 • Legal Systems Administration BUS6735/6736* • Medical Systems Administration BUS6730/6731* • Notetaking BUS6241/6242* (may complement the sequence but must be offered with two or more other courses) • Office Administration BUS6621/BUS6622* • Principles of Business and Marketing BUS6115/BUS6116* • Word Processing BUS6625/BUS6626* <i>*18-week course</i> <i>Note:</i> When students take a keyboarding course as a prerequisite, they may test out through documented proficiency in the course competencies. However, the test-out option does not count toward a concentration or specialization sequence.	Keyboarding BUS6151* or Keyboarding Applications BUS6152/BUS6153* and a combination of 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses:
Landscaping ANR8036	See Horticulture Sciences ANR8034	
Leadership Development CCN9092	See Introduction to Leadership CCN9091	

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Legal Systems Administration BUS6735/ BUS6736</p> <p>Prerequisite: Keyboarding Applications* * Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Option 1 Legal Systems Administration BUS6735 (daily 2-period block)</p> <p>Option 2 Legal Systems Administration BUS6735/BUS6736* (single or double period) and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Accounting BUS6320 • Advanced Accounting BUS632 (requires Accounting prerequisite) • Business Law BUS6131/BUS6132* • Business Management BUS6135/BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Desktop/Multimedia Presentations BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS612/BUS6121* • Information Technology Fundamentals BUS6670 • Keyboarding Applications BUS6152/BUS6153* • Keyboarding BUS6151* • Notetaking BUS6241/BUS6242* (may complement the sequence but must be offered with two or more other courses) • Office Administration BUS6621/BUS6622* • Principles of Business and Marketing BUS6115/BUS6116* • Word Processing BUS6625/BUS6626* <p><i>*18-week course</i></p>	<p>Legal Systems Administration BUS6735 (single or double period) and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p>

Course/Course Code	Concentration Sequences	Specialization Sequences
Life Planning FCS8226/FCS8227	<p>Life Planning FCS8226*/FCS8227 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209/FCS8210 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Introduction to Culinary Arts FCS8249*/FCS8250 • Introduction to Early Childhood Education and Services FCS8233*/FCS8234 • Introduction to Family and Human Services FCS8237*/FCS8238 • Introduction to Fashion Design and Marketing Occupations FCS8247*/FCS8248 • Introduction to Hospitality, Tourism, and Recreation Occupations FCS8258*/FCS8259 • Introduction to Housing, Home Furnishings, and Interior Design Occupations FCS8254*/FCS8255 • Introduction to Leadership CCN9091 • Leadership Development CCN9092 (requires Introduction to Leadership prerequisite) • Work and Family Management FCS8205*/FCS8282 • GRADS FCS8278 <p><i>*18-week course</i></p>	<p>Life Planning FCS8226*/FCS8227 and any combination of the 18- and 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p> <p><i>*18-week course</i></p>
Make It Your Business BUS6110/BUS6111	<p>Make It Your Business BUS6110 (36 weeks) and BUS6111 (18 weeks) are foundation courses. They may be sequenced with many other business courses but do not count toward a concentration sequence.</p>	
Make It Your Business MKT8114	<p>Make It Your Business MKT8114 (18 weeks) may be included in addition to any two 36-week course sequences for any of the following:</p> <ul style="list-style-type: none"> • General Marketing • Executive Marketing • Apparel and Accessories Marketing • Hospitality, Tourism, and Recreation Marketing • Financial Services Marketing 	
Manufacturing Systems DTE8426	<p>Manufacturing Systems DTE8425 and Advanced Manufacturing Systems DTE8427</p>	<p>Manufacturing Systems DTE8425 and Advanced Manufacturing Systems DTE8427 and one of the following:</p> <ul style="list-style-type: none"> • Technology Foundations DTE8402 • Production Systems DTE8447

Course/Course Code	Concentration Sequences	Specialization Sequences
Marketing MKT8120/MKT8121	Marketing MKT8120/MKT8121 and Advanced Marketing MKT8130/MKT8131	Marketing MKT8120/8121 and Advanced Marketing MKT8130/MKET8131 and one of the following: Internet Marketing MKT8125 Marketing Management MKT8132
	Marketing MKT8120/8121 and one of the following: • Internet Marketing MKT8125 • Marketing Management MKT8132	
Marketing Management MKT8132	Marketing Management MKT8132 and Internet Marketing MKT8125 or Marketing MKT8120/MKT8121	
Masonry TDI8512/TDI8513/TDI8514	All T&I courses available for the 3-year scheduling option are listed as specializations.	Masonry I TDI8512 and Masonry II TDI8513 and Masonry III TDI8514 or ICT TDI8904 if needed for local scheduling option
Materials and Processes Technology DTE8433/DTE8434	Production Systems DTE8447 and Materials and Processes Technology DTE8433	Production Systems DTE8447 and Materials and Processes Technology DTE8433 and one of the following: • Construction Technology DTE8431 • Manufacturing Systems DTE8425
Medical Assistant HMS8345/HMS8346	Medical Assistant I HMS8345 and Medical Assistant II HMS83	

Course/Course Code	Concentration Sequences	Specialization Sequences
Medical Systems Administration BUS6730/BUS6731 Prerequisite: Keyboarding Applications* * Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills	Option 1 Medical Systems Administration BUS6730 (daily 2-hour block) Option 2 Medical Systems Administration BUS6730/BUS6731* (single or double period) and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> Accounting BUS6320 Advanced Accounting BUS632 (requires Accounting prerequisite) Business Law BUS6131/BUS6132* Business Management BUS6135/BUS6136* Computer Applications BUS6611/BUS6617* Computer Information Systems (CIS) BUS6612/BUS6614* Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) Desktop/Multimedia Presentations BUS6630/BUS6632* Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) Digital Input Technologies BUS6160*/BUS6161 Finance BUS612/BUS6121* Information Technology Fundamentals BUS6670 Keyboarding Applications BUS6152/BUS6153* Keyboarding BUS6151* Notetaking BUS6241/BUS6242* (may complement the sequence but must be offered with two or more other courses) Office Administration BUS6621/BUS6622* Principles of Business and Marketing BUS6115/BUS6116* Word Processing BUS6625/BUS6626* <i>*18-week course</i>	Medical Systems Administration BUS6730/BUS6731* (single or double period) and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses <i>*18-week course</i> or Medical Assistant I HMS8345 and Medical Assistant II HMS8346 and Medical Systems Administration BUS6730/BUS6731* <i>*18-week course</i>
Medical Terminology HMS8383	See Introduction to Health and Medical Sciences HMS8302	
Nail Technician TDI8692/TDI8693	Nail Technician I TDI8692 and Nail Technician II TDI8693	
Natural Resources Business Management ANR8044	See Introduction to Natural Resources ANR8040	
Notetaking BUS6241/BUS6242	Notetaking may complement a Business/IT concentration sequence but must be offered with two or more other courses.	Notetaking may complement a Business/IT specialization sequence but must be offered with two or more other courses.
Nursing Assistant HMS8360/HMS8362	Nursing Assistant I HMS8360 and Nursing Assistant II HMS8362	

Course/Course Code	Concentration Sequences	Specialization Sequences
Nutrition and Wellness FCS8228/FCS8229	<p>Nutrition and Wellness FCS8228*/FCS8229 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209/FCS8210 • Life Planning FCS8226*/FCS8227 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Introduction to Culinary Arts FCS8249*/FCS8250 • Introduction to Early Childhood Education and Services FCS8233*/FCS8234 • Introduction to Family and Human Services FCS8237*/FCS8238 • Introduction to Fashion Design and Marketing Occupations FCS8247*/FCS8248 • Introduction to Hospitality, Tourism, and Recreation Occupations FCS8258*/FCS8259 • Introduction to Housing, Home Furnishings, and Interior Design Occupations FCS8254*/FCS8255 • Introduction to Leadership CCN9091 • Leadership Development CCN9092 (requires Introduction to Leadership prerequisite) • Work and Family Management FCS8205*/FCS8282 • GRADS FCS8278 <p><i>*18-week course</i></p>	Nutrition and Wellness FCS8228/FCS8229 and a combination of 18- and 36-week courses listed for concentration, equivalent to a total of three 36-week courses

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Office Administration BUS6621/6622</p> <p>Prerequisite: Keyboarding*</p> <p>* Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Office Administration BUS6621/BUS6622* and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Accounting BUS6320 • Advanced Accounting BUS632 (requires Accounting prerequisite) • Business Law BUS6131/BUS6132* • Business Management BUS6135/BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Desktop/Multimedia Presentations BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS6120/BUS6121* • Information Technology Fundamentals BUS6670 • Keyboarding Applications BUS6152/BUS6153* • Keyboarding BUS6151* • Legal Systems Administration BUS6735 • Medical Systems Administration BUS6730/BUS6731* • Notetaking BUS6241/BUS6242* (may complement the sequence but must be offered with two or more other courses) • Principles of Business and Marketing BUS6115/BUS6116* • Word Processing BUS6625/BUS6626* <p><i>*18-week course</i></p>	<p>Office Administration BUS6621*/6622 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses:</p> <p><i>*18-week course</i></p>

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Office Specialist BUS6740/ BUS6741/BUS6742</p> <p>Prerequisite: Keyboarding* * Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Option 1 Office Specialist I BUS6740 (daily 2-period block)</p> <p>Option 2 Office Specialist I BUS6740 (single or double period) and a combination of one or more of the following 18-week or 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Office Specialist II BUS6741 • Office Specialist III BUS6742 • Accounting BUS6320 • Advanced Accounting BUS632 (requires Accounting prerequisite) • Business Law BUS6131/BUS6132* • Business Management BUS6135, BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Desktop/Multimedia Presentations BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS6120/BUS6121* • Information Technology Fundamentals BUS6670 • Keyboarding Applications BUS6152/BUS6153* • Keyboarding BUS6151* • Legal Systems Administration BUS6735 • Medical Systems Administration BUS6730/BUS6731* • Notetaking BUS6241, BUS6242* (may complement the sequence but must be offered with two or more other courses) • Principles of Business and Marketing BUS6115/BUS6116* • Word Processing BUS6625/BUS6626* <p><i>*18-week course</i></p>	<p>Office Specialist I BUS6740 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses:</p>
Operating the Farm Business ANR8014	See Agricultural Production Technology ANR8010.	

Course/Course Code	Concentration Sequences	Specialization Sequences
Parenting FCS8231/FCS8232	Parenting FCS8231*/FCS8232 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Resource Management FCS8214*/FCS8219 • Introduction to Culinary Arts FCS8249*/FCS8250 • Introduction to Early Childhood Education and Services FCS8233*/FCS8234 • Introduction to Family and Human Services FCS8237*/FCS8238 • Introduction to Fashion Design and Marketing Occupations FCS8247*/FCS8248 • Introduction to Hospitality, Tourism, and Recreation Occupations FCS8258*/FCS8259 • Introduction to Housing, Home Furnishings, and Interior Design Occupations FCS8254*/FCS8255 • Introduction to Leadership CCN9091 • Leadership Development CCN9092 (requires Introduction to Leadership prerequisite) • Work and Family Management FCS8205*/FCS8282 • GRADS FCS8278 <i>*18-week course</i>	Parenting FCS8231*/FCS8232 and any combination of one or more 18- and 36-week courses listed for concentration, equivalent to a total of three 36-week courses <i>*18-week course</i>
Pharmacy Technician HMS8305	Pharmacy Technician HMS8305 is a triple-period course that stands alone.	
Physical/Occupational Therapy HMS8365	Physical/ Occupational Therapy HMS8365 (double-period class)	
Plumbing TDI8551/TDI8552/TDI8553	All T&I courses available for the 3-year scheduling option are listed as specializations.	Plumbing I TDI8551 and Plumbing II TDI8552 and Plumbing III TDI8552 or ICT TDI8904 if needed for local scheduling option
Power and Transportation DTE8444/DTE8445	Power and Transportation DTE8445 and Energy and Power DTE8448	Power and Transportation DTE8445 and Energy and Power DTE8448 and Electronics Systems I DTE8416
	Power and Transportation DTE8445 and Heavy Duty Equipment Repair TDI8612	
Practical Nursing HMS8357/HMS8358/HMS8359	Practical Nursing I HMS8357* and Practical Nursing II HMS8358* and Practical Nursing III HMS8359 <i>*18-week course</i>	
Precision Machining Technology TDI8539/TDI8540/TDI8541	All T&I courses available for the 3-year scheduling option are listed as specializations.	Precision Machining Technology I TDI8539 and Precision Machining Technology II TDI8540 and Precision Machining Technology III TDI8541 or ICT TDI8904 if needed for local scheduling option

Course/Course Code	Concentration Sequences	Specialization Sequences
Principles of Business and Marketing BUS6115/BUS6116 Prerequisite: None	Principles of Business and Marketing BUS6115/BUS6116* and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Accounting BUS6320 • Advanced Accounting BUS6321 (requires Accounting prerequisite) • Business Law BUS6131/BUS6132* • Business Management BUS6135/BUS6136* • Computer Applications BUS6611/BUS6617* • Computer Information Systems BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Desktop/Multimedia Presentations BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires Desktop Multimedia prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS6120/BUS6121* • Keyboarding BUS6151 • Keyboarding Applications BUS6152/BUS6153* • Legal Systems Administration BUS6735/6736* • Medical Systems Administration BUS6730/BUS6731* • Office Administration BUS6621/BUS6622* • Office Specialization BUS6740/BUS6741/BUS6742 • Word Processing BUS6625/BUS6626* <i>*18-week course</i>	Principles of Business and Marketing BUS6115/BUS6116* and a combination of one or more of the 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses
Principles of Business and Marketing MKT8115/MKT8116	Principles of Business and Marketing MKT8115/MKT8116 is a part of the General Marketing sequence and may be sequenced with other marketing courses but does not count toward a concentration sequence.	
Principles of Technology DTE9811/DTE9812	Principles of Technology I DTE9811 and Principles of Technology II DTE9812	
Production Systems DTE8446/DTE8447	Production Systems DTE8447 and one of the following: <ul style="list-style-type: none"> • Materials and Processes Technology DTE8433 • Construction Technology DTE8431 • Manufacturing Systems DTE8425 	Production Systems DTE8447 and Materials and Processes Technology DTE8433 and one of the following: <ul style="list-style-type: none"> • Construction Technology DTE8431 • Manufacturing Systems DTE8425

Course/Course Code	Concentration Sequences	Specialization Sequences
Programming BUS6640 Prerequisite: Keyboarding* and Information Technology Fundamentals are recommended. * Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills	Programming BUS6640 and a combination of one or more of the following 18-week or 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Advanced Programming BUS6641 • Advanced Information Technology Certifications (AITC) I BUS6680 • Advanced Information Technology Certifications (AITC) II BUS6681 (requires AITC I prerequisite) • Computer Applications BUS6611/BUS6617* • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Computer Network Software Administration (CNSA) BUS6650 • Advanced Computer Network Software Administration BUS6651 (requires CNSA prerequisite) • Database Design and Management (DDM) BUS6660 • Advanced Database Design and Management BUS6661 (requires DDM prerequisite) • Desktop/Multimedia Presentations (DTMP) BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) • Information Technology Fundamentals BUS6670 <i>*18-week course</i> Also, see International Baccalaureate Information Technology in a Global Society IB6613.	Programming BUS6640 and a combination of 18-week or 36-week courses, equivalent to a total of three 36-week courses
Public Safety TDI8700/TDI8701	Public Safety I TDI8700 and Public Safety II TDI8701	
Radio Communications TDI8640/TDI8641/TDI8642	All T&I courses available for the 3-year scheduling option are listed as specializations.	Radio Communications I TDI8640 and Radio Communications II TDI8641 and Radio Communications III TDI8642 or ICT TDI8904 if needed for local scheduling option
Real Estate Marketing MKT8191	Real Estate Marketing MKT8191 and one of the following: <ul style="list-style-type: none"> • Marketing 8120/8121 • Internet Marketing 8125 • International Marketing 8135 • Marketing Management 8132 • One of the Hospitality, Tourism, and Recreation Marketing courses 	

Course/Course Code	Concentration Sequences	Specialization Sequences
Resource Management FCS8214/FCS8219	Resource Management FCS8214*/FCS8219 and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses: <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Introduction to Culinary Arts FCS8249*/FCS8250 • Introduction to Early Childhood Education and Services FCS8233*/FCS8234 • Introduction to Family and Human Services FCS8237*/FCS8238 • Introduction to Fashion Design and Marketing Occupations FCS8247*/FCS8248 • Introduction to Hospitality, Tourism, and Recreation Occupations FCS8258*/FCS8259 • Introduction to Housing, Home Furnishings, and Interior Design Occupations FCS8254*/FCS8255 • Introduction to Leadership CCN9091 • Leadership Development CCN9092 (requires Introduction to Leadership prerequisite) • Work and Family Management FCS8205*/FCS8282 • GRADS FCS8278 <i>*18-week course</i>	Resource Management FCS8214*/FCS8219 and any combination of 18- and 36-week courses, equivalent to a total of three 36-week courses <i>*18-week course</i>
Restaurant Marketing MKT8170	Restaurant Marketing MKT8170 and one of the following: <ul style="list-style-type: none"> • Advanced Marketing MKT8130/MKT8131 • Internet Marketing MKT8125 • Marketing Management MKT8132 • International Marketing MKT8135 	
Robotic Workcell Technology TDI8557/TDI8558/TDI8559	All T&I courses available for the 3-year scheduling option are listed as specializations.	Robotic Workcell Technology I TDI8557 and Robotic Workcell Technology II TDI8558 and Robotic Workcell Technology III TDI8559 or ICT TDI8904 if needed for local scheduling option
Sheet Metal TDI8663/TDI8664/TDI8665	All T&I courses available for the 3-year scheduling option are listed as specializations.	Sheet Metal I TDI8663 and Sheet Metal II TDI8664 and Sheet Metal III TDI8665 or ICT TDI8904 if needed for local scheduling option
Small Animal Care I ANR8083	Agricultural Mechanics and Basic Animal Science ANR8008 and Small Animal Care I ANR8083	Agricultural Mechanics and Basic Animal Science ANR8008 and Small Animal Care I ANR8083 and Small Animal Care II ANR8084
Small Animal Care II ANR8084	See Small Animal Care I ANR8083	

Course/Course Code	Concentration Sequences	Specialization Sequences
Small Engine Repair ANR8021/ANR8082	Agricultural Mechanics and Basic Plant Science ANR8006 or Agricultural Mechanics and Basic Animal Science ANR8008 and Small Engine Repair ANR8082 or Basic Small Engine Repair TDI8724 and Small Engine Repair ANR8082	Basic Small Engine Repair TDI8724 and Small Engine Repair ANR8082 and one of the following: <ul style="list-style-type: none"> • Entrepreneurship Education CCN9094 • Industrial Cooperative Training TDI8904
Small Engine Repair TDI8725/TDI8726/ TDI8727	All T&I courses available for the 3-year scheduling option are listed as specializations.	Small Engine Repair I TDI8725 and Small Engine Repair II TDI8726 and Small Engine Repair III TDI8727 or ICT TDI8904 if needed for local scheduling option
Specialty Horticulture Arts ANR8037	See Horticulture Sciences ANR8034	
Sports, Entertainment, and Recreation Marketing MKT8175/MKT8176	Sports, Entertainment, and Recreation MKT8175/MKT8176 and one of the following: <ul style="list-style-type: none"> • Advanced Sports, Entertainment, and Recreation MKT8177/8178 • Advanced Marketing MKT8130/MKT8131 • Internet Marketing MKT8125 • Marketing Management MKT8132 	
Surgical Technologist HMS8351/HMS8352	Surgical Technologist I HMS8351 and Surgical Technologist II (Adult) HMS835	
Teacher Cadet CCN9062	Teacher Cadet (CCN9062) (36 weeks) and two of the following 18-week courses: <ul style="list-style-type: none"> • Individual Development FCS8209 • Introduction to Early Childhood Education FCS8233 • Introduction to Leadership CCN9091 • Leadership Development CCN9092 • Life Planning FCS8226 • Parenting FCS8231 	
	Teacher Cadet (CCN9062) (36 weeks) and one of the following 36-week courses: <ul style="list-style-type: none"> • Early Childhood Cooperative Education I FCS8293 • Early Childhood Cooperative Education II FCS8294 • Early Childhood Education I FCS8285 • Early Childhood Education II FCS8286 • Individual Development FCS8210 • Introduction to Early Childhood Education FCS8234 • Introduction to Leadership CCN9091 • Leadership Development CCN9092 • Life Planning FCS8227 • Parenting FCS8232 • Psychology I 2900 • Psychology II 2901 • Sociology 2500 	

Course/Course Code	Concentration Sequences	Specialization Sequences
Technical Drawing/Design DTE8434/DTE8435	Technical Drawing/Design DTE8435 and one of the following: <ul style="list-style-type: none"> Engineering Drawing/Design DTE8436 Architectural Drawing/Design DTE8437 	Technical Drawing/Design DTE8435 and Engineering Drawing/Design DTE8436 and Architectural Drawing/Design DTE8437
Technology Assessment DTE8406/DTE8407	See Technology Foundations DTE8403	
Technology Foundations DTE8402/DTE8403	Technology Foundations DTE8403 and one of the following: <ul style="list-style-type: none"> Technology Transfer DTE8405 Technology Assessment DTE8407 	Technology Foundations DTE8403 and Technology Transfer DTE8405 and Technology Assessment DTE8407
		Technology Foundations DTE8403 and one of the following: Technology Transfer DTE8405 and one additional 36-week or two additional 18-week Technology Education courses
Technology Transfer DTE8404/DTE8405	See Technology Foundations DTE8403	
Telecommunications TDI8650/TDI8651	Telecommunications I TDI8650 and Telecommunications II TDI8651	
Television Production TDI8688/TDI8689/ TDI8690	All T&I courses available for the 3-year scheduling option are listed as specializations.	Television Production I TDI8688 and Television Production II TDI8689 and Television Production III TDI8690 or ICT TDI8904 if needed for local scheduling option
Travel and Tourism Marketing MKT8165/ MKT8166	Travel/Tourism MKT8165/MKT8166 and Advanced Travel/Tourism MKT8167/MKT8168 or Internet Marketing MKT8125	
Turf Establishment and Maintenance ANR8051	Agricultural Mechanics and Basic Plant Science ANR8006 and Turf Establishment and Maintenance ANR8051	Agricultural Mechanics and Basic Plant Science ANR8006 and Turf Establishment and Maintenance ANR8051 and Advanced Turf Grass Applications ANR805
Utility/Heavy Construction Technology TDI8616/TDI8617/TDI8618	All T&I courses available for the 3-year scheduling option are listed as specializations.	Utility/Heavy Construction Technology I TDI8616 and Utility/Heavy Construction Technology II TDI8617 and Utility/Heavy Construction Technology III TDI8618 or ICT TDI8904 if needed for local scheduling option
Veterinary Assistant Level I HMS8310 Veterinary Assistant Level II HMS8311 Veterinary Assistant Level III HMS8312	Veterinary Assistant Level I HMS8310 and Veterinary Assistant Level II HMS8311	Veterinary Assistant Level I HMS8310 and Veterinary Assistant Level II HMS8311 and Veterinary Assistant Level III HMS8312
Welding TDI8672/TDI8673/TDI8674	All T&I courses available for the 3-year scheduling option are listed as specializations.	Welding I TDI8672 and Welding II TDI8673 and Welding III TDI8674 or ICT TDI8904 if needed for local scheduling option

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Word Processing BUS6625/BUS6626</p> <p>Prerequisite: Keyboarding*</p> <p>* Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills</p>	<p>Word Processing BUS6625, BUS6626* and a combination of one or more of the following 18-week and 36-week courses, equivalent to a total of two 36-week courses:</p> <ul style="list-style-type: none"> • Accounting BUS6320 • Computer Information Systems (CIS) BUS6612/BUS6614* • Advanced Computer Information Systems BUS6613/BUS6615* (requires CIS prerequisite) • Business Law BUS6131/BUS6132* • Business Management BUS6135/BUS6136* • Computer Applications BUS6611/BUS6617* • Desktop/Multimedia Presentations BUS6630/BUS6632* • Advanced Desktop/Multimedia Presentations BUS6631/BUS6633* (requires DTMP prerequisite) • Digital Input Technologies BUS6160*/BUS6161 • Finance BUS6120, BUS6121* • Keyboarding Applications BUS6152/BUS6153* • Keyboarding BUS6151* • Legal Systems Administration BUS6735/BUS6736* • Medical Systems Administration BUS6730/BUS6731* • Notetaking BUS6241, BUS6242* (may complement sequence but must be offered with two or more other courses) • Office Administration BUS6621/BUS6622* • Principles of Business and Marketing BUS6115/BUS6116* <p><i>*18-week course</i></p>	<p>Word Processing BUS6625/BUS6626* and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p> <p><i>*18-week course</i></p>

Course/Course Code	Concentration Sequences	Specialization Sequences
<p>Work and Family Management FCS8205/FCS8282</p> <p>(This is a transition focus course. It must be combined with family focus or work focus courses to make an approved concentration sequence)</p>	<p>Work and Family Management FCS8205*/FCS8282 and a combination of one or more of the following 18-week and 36-week courses, equivalent to two 36-week courses:</p> <ul style="list-style-type: none"> • Family Relations FCS8223*/FCS8225 • Individual Development FCS8209*/FCS8210 • Life Planning FCS8226*/FCS8227 • Nutrition and Wellness FCS8228*/FCS8229 • Parenting FCS8231*/FCS8232 • Resource Management FCS8214*/FCS8219 • Introduction to Leadership CCN9091* • Leadership Development CCN9092* • Culinary Arts I FCS8275 • Culinary Arts II FCS8276 • Early Childhood Education and Services I FCS8285 • Early Childhood Education and Services II FCS8286 • Family and Human Services I FCS8264 • Family and Human Services II FCS8265 • Fashion Design Occupations I FCS8280 • Fashion Design Occupations II FCS8281 • Hospitality Services I FCS8202 • Hospitality Services II FCS8203 • Interior Design I FCS8295 • Interior Design II FCS8296 <p>* 18-week course</p>	<p>Work and Family Management FCS8205*/FCS8282 and a combination of one or more 18-week and 36-week courses listed for concentration, equivalent to a total of three 36-week courses</p>